The MINES of ARIZONA

This department is under the direction of Mr. W. E. Defty, the well known mining engineer, who will carefully scrutinize all matters relating to mining in order that only reliable information regarding legitimate enterprises shall find a place here.

The Republican would be pleased to receive information from any part of the state regarding the development of the mining industry. All communications should be addressed: Mining Department Arizona Republican.

turn of the men to work. This mis- Old Dominion then now seems to be on the way to a Shannon happy settlement and let us bope a Shattuck Arizona on the price of copper.

Phoenix Mining Interests

the latest interests is from the county \$4.82 per share on its 747,112 shares have formed a syndicate and are put- ed to \$2.25 per share. Cost of proting up their money as needed in the duction was \$15 cents per pound and and Howard & Houck claims. development of a prospect north of the company received approximately Kingman. Varying samples of ores 17.3 cents per pound for its copper. exhibited from the property unques- In 1914 the tionably shows favorable earmarks and 33,296,010 pounds of copper at a cost we sincerely trust their legitimate en- of 9.2 cents per pound and earned the Orofino, Union, Fortuna, and deaver to develope something big will \$1,366,816, or \$1.84 per share. be crowned with every success and their spirit of enterprise handsomely

the San Juan mine near Safford in a phenomenal soaring and is quoted Graham county. J. J. Birdno of the at \$225 per flask with the conditions land office is one of the principal favoring it still going higher. It

has recently bonded his Copper Crown now developed and producing. Still property in the Superstition moun- they ought to be sound and substantains, near Goldfield, to George H. Hol- tially good remunerative producers to depth will be commenced at once. normal price. Some excellent appearing ores have

one of the greatest ore bodies ever encountered in the district. We believe the Oatman District will prove to be one of the greatest gold mining districts in the country and that great profits will be made in teatman stocks. The greatest profits will be made by those who invest while prices are low. We advise immediate purchase of LUCKY BOY

at the market. Lucky Boy is only about 1000 feet from Big Jim. About the same distance from the Black Eagle shaft of the famous Tom Reed. The Carter strike is on the big Lucky Boy vein. Stock It will go nigher. Buy Lucky Boy today. Write for our Free Market

E. H. SCHIEK & CO. Members Los Angeles Stock Exchange 124 West Fourth St., Los Angeles,

FAIRBANKS=MORSE Engines

Shieren Duxbak Belting Pulleys, Shafting, Pumps, Etc.

ARIZONA HARDWARE SUPPLY CO. Phone 1231

Third Ave. and Jackson, Phoenix 'We have the stock.'

New Reduced Prices On

TIRES

Goods shipped to all points C. O. turned intact within one week.

	Special		
	Prices on	Tubes	
	Plain Tread	Gray	Red
28×3	\$ 5.80	\$1.70	\$1.85
30×3	6.15	1.75	1,95
32×3	7.30	1.80	2.05
30×31	2 8.30	2.10	2.35
31×35	5 8.75	2.20	2.40
32×3	9.00	2.25	2.45
34×31	9.70	2.40	2.55
36×3	2 10 80	2.60	2.75
30×4		2.75	3.00
31×4	12.00	2.85	3.15
32×4		2.95	3.30
33×4	13.10	3.05	3.45
34×4	13.50	3.15	3.50
35×4	13.75	3.25	3.60
36×4	14.25	3.35	3.70
34×41	5 16.80	3.90	4.35
	2 17.30	4.00	4.45
	2 17.90	4.15	4.60
	18.35	4.20	4.70
35×5		4.70	5.2
	20.75	4.85	5.3
37×5		5.00	5.5

Prices Subject to Change Without

Automobile Tire Co. 6th & Olive Sts., Los Angeles, Cal.

H. A. Demarest 533 Van Ness Ave., San Francisco. 1758 Broadway, Oakland 2nd & B Sts.,

San Diego Hotel Fresno Bldg., Fresno, Cal. The Oldest Automobile Tire Job-Concern in the United States and the largest in the world.

desultory way for some years. A measurable and in sight in the open few years back this locality was quite workings, exclusive of possible and active with mining development.

Since the price of copper advanced

Copper Earnings

coppers will earn on the increased last thirty years. 25 cents:

understanding between employers and Ray Consolidated 7.65-30.9% engineers, and found to contain lowcontinuous and permanent one. The There is no negotiation in the stocks water, and only these facts and lack fare. They see to it that every dismen return on the scale schedule as of the Copper Queen, Phelps-Dodge or of good transportation has retarded tributor is properly equipped, both in presented by the companies and based the United Verde; both are close cor- their development. There are several

Miami Copper Co.

Many of the employes outstanding, while dividends amountcompany produced

Last week we reported that this would mean a great deal to the prop-A. Villman, a business man of Mesa, erties north of Phoenix if they were and systematic development even if quicksilver was around its

H. S. Griswold of this city has this prop- been elected treasurer of the Sunflower Cinnabar Co. Mr. Griswold s a citizen of high standing in inaddition of his name to the directothat a well planned and practical development of the property commensurate with its importance will be commenced at an early date. Capitalists have returned for investigating the

property very recently. There is a great deal of attention also been paid to the Bowman Reynolds property. Samples from this were recently sent to New York for test purposes. On the Murphy property a small prospector's retort has been erected and is working successfully furning out quicksilver. These properties will be permanent producers when started in the right

Cave Creek

The following are communications received from the east, addressed to me and the Bureau of Mines respectively and are given in their entirety:

letter we are sending to Director Willis of the Bureau of Mines, beteresting reading for the people in Phoenix particularly who read the Sunday mining news of the Arizona

May 1 add one other thought or suggestion? That is, up here it looks to us as though the people in the neighborhood of Phoenix are a little slow and not up and doing in the same way as the people in the neighborhood of Tucson and in the southeastern part of Arizona generally.

You will find most of the free advertising through public sources, as well as private, enter their attention everywhere except in mining districts that would benefit the people of Phoenix. Whereas, on the other hand. the people of Phoenix and in that neighborhood, have to pay the largest proportion of the taxes and expenses o support Mining Bureaus, the State University, and other public institutions or, if you please, that is the impression which prevails up here.

The illustration of my point I think appears perfectly clear in the enclosed copy letter, and the fact that in the Bureau of Mines issue they do not recognize the existence of Maricepa county as containing any gold bearing rock to an unlimited extent or amount, independent of the question of assets.

Personally I believe this is the time s little more on behalf of the gold | bilities, and I am not asking for any free advertising of Cave Creek, or regardless of whose mine it is or who is interested in it.

ect generally will attract the attention of capital and labor to that locality which will return a benefit to the city of Phoenix and eventually every one of us will be benefitted, independent of who gets the first

January 21, 1916. Director Charles F. Willis, Arizona Bureau of Mines,

University of Arizona, Tucson, Arizona.

We beg to acknowledge your Bulletins, issued by the Arizona Buany future bulletins. We presme that you are desirous

as possible, and we trust you will the following facts and figures will process. The extension of this rich pardon us if we call your attention to show: certain omissions, beyond doubt unintentional, from Bulletin No. 3; "Directory of Arizona Minerals."

We do not observe under the headrence of gold in Maricopa county, es. The old Peck mine, located in the more customers than you can

pecially at Cave Creek, where the "Bully Cave Mine," formerly "Phoenix

We beg to state that there exists at ave Creek a deposit of gold-bearing V. Messinger of Glendale, in associa- cre from which about \$300,000 in gold ion with C. D. Rogers of San Fran- was extracted by the Phoenix Co., and cisco, is going to develope the White which still contains, according to a Picacho mine, north of Beardsley, recent report by Kirby Thomas, M. E., The property has been worked in a about 1,200,000 tons of proved ore,

Adjacent to these claims, which are patented, and contain a large plant, now shut down, are the claims and to better than 24 cents and a prooa. mill of the Cottonwood Creek Gold Willard Kirkwood, local service man bility of going higher the question Mining Company, from which large for the Willard Storage Battery Comarises as to how much the standard amounts have ben extracted in the pany

the Arizona coppers, with copper at mines known as the Carbonate Chief, are willing to do more than make Montcalm, Dravo and Portmanteau, Probably the best news received this Calumet & Arizona.....\$21.20-22.2% and about the same distance southweek is the reported ending of the Inspiration 22.10—46.5% east, the Bondurant and Grand strike at Clifton-Morenet and the re- Miami 12.21—32.2% Traverse, All of these have been ex-12.21-32.2% Traverse. All of these have been ex- trical system, regardless of trouble. 18.90-28.8% amined and reported on, by eastern

the district. We have from time to time called people are taking in mining. One of copper and earned \$3,608,000 net, or paying quantities, namely. Copper Top, Kentucky-Arizona and Rogers Spring, and southeast of Cave Creek Station are the Modoc, Mormon Girl

> The road from Cave Creek to Phoerix passes through the Winifred district, where there are several opened Blue Bell.

The ores at Cave Creek are found in breccia cemented with lime, and The landlord of our famous hostelry, metal had jumped up to the figure of are carbonates, in which are found J. C. Adams, has become interested in \$165 per flask. But this week it takes lead, canadinite and descloizite, in considerable quantities

The ores on Gold Hill and in the Winifred district are generally sul-

Values range from \$3.00 to \$15.00 per ten in the various localities, and the ore is, as a rule, free milling, and entirely susceptible to evanide treatment, making an average recovery of about 90 per cent possible.

We have been exceedingly surprised since we took over the mine at Cave Creek to observe the apparent neglect of this district, both by the general tegrity and business methods and the government and the mining element. It would be naturally supposed that rate will add considerably to its in- districts within such a short distance fluence and stability. It is anticipated of Phoenix, with its supplies, labor market, capital, and electrical power, would attract attention. A monograph on the region, showing its mineral possibilities, would be of great value

We also note that under the headngs "Vanadinite" and "Descloizite" no mention is made of the occurrence of these minerals at Cave Creek. Acording to the reports of Messrs Constant, Stokes and K. Thomas, all well known mineralogists, we have those minerals in large quantities, both vellow and red. A large band of vanadinite, assaying 3 per cent vanadic acid, is vislible to the eye, in the stopes; and all the gold extracted from these stopes was coated with vanadinite, causing | dent. great deal of trouble in clearing the presence of vanadinite yellow and red, never cause it seems to me it might be in-

ber of years ago. We enclose rough sketch, showing approximately the location of the mines in Maricopa county which have been mentioned and will be very

data and maps in our possession. road, and the development of the great water power which could be obtained by storage of the flood waters neighborhood of the Crown King coun will in connection with the proximity to Phoenix at some time make this region, where gold, canadium, tungminerals exist, one of the most inter-

esting in the state. Mesrs. Hatch, Clark and others conin its development.

Yours very respectfully.

Something About Yavapai By William P. De Wolf

Prescott, Arizona, Jan. - Mining operations in the Crown King country, tributary to Prescott, are being cral conditions and with a degree of financial success which has not hith- the value of the field as a whole. erto been equalled there since the day for the Arizona Republican to shout of "dollar silver" and the double standard monetary system in the draw the public attention to its possimineralized section of Yavapai county is attributable to the reawakened inany properties in which I am intertion that Yavapai county and Arizona ir general is receiving from mine operators and investors, and the satisfactory results which attend a more thorough prospecting of the Crown King field. Contributing causes are ord maker of former years that is in adequate railroad facilities, modern line for a protracted era of prosperity processes for the reduction of so-called in this da yof modern mining and

gold and sliver ores of that section. | the Eclipse shipped about \$100,000 ing history in days of Geronimo and having a value as high as 1,000 ounces kindness in sending us eight copies of the pioneer in Arizona are again being in silver per ton It was mined in a worked in the Crown King country parallel vein to what is known as the reau of Mines, and hope you will con- under conditions which indicate an era Tiger Gold ledge. The ore disclosed of productivity greatly in excess of in the workings is not alone rich in their records of past years. And silver, but in lead and zinc as well. It those records are writ large on the offers no treatment problem which of making the Bulletins as accurate pages of Arizona's mining history, as cannot be solved by the oil flotation

> The old Tiger group of silver claims property, where the same grade and has a production record of \$500,000 character of ore is exposed. worth of silver ore. The Crown King mine, another famous producer, has

PLEASED TO SERVE

Their First Aim Is to Do the Best By Their Car Owners-Service Sta-tion Is for Service

"As a rule, the term service station s something one thinks about only when he has trouble," says Mr. Fred

"In our case it's a little different. prices. The following table shows the About five or six miles east on First of all, we want the motor car present earning capacity of a few of what is known as "Gold Hill," are owners in this vicinity to feel that we their repairs for which we are paid. Often a man wants to know some thing about his battery or his elec-

"When the Willard Company ar ranges for a service station, it is with 6.64-73.7 grade gold ores. They are at a high the understanding that it is being 7.51-22.7% elevation, at some distance from good established for the car owner's weltools and knowledge of batteries, to good prospects, not yet examined, in give expert service in all branches of battery work.

"Besides the service stations must show a willingness to give information and advice to Willard owners without charging them for it. He must even go so far as to make a battery to determine its condition and report this to the owner before any repairs are made.

"If a man gets some valuable suggestion which leads to a saving of trouble and money, he naturally goes to the source of that information when he needs repairs that cost him

Studebaker Chassis Encrusted With Precious Metal Is Eyed By Thousands-Detectives Guard It

Utmost precautions have been taken insure the safe transportation of the \$25,000 Studebaker gold chassis around the circuit of citles where it is being placed on exhibition.

As an example, when the curtain was run down on the New York auomobile show, S. J. Fournier, Cleveland agent of the American Express Company, was on hand to personally conduct the precious chassis to Clevecarried the chassis, being accompanied by a Pinkerton man, who is assigned to guard it at motor car shows where

As a further precaution, the chassis was loaded on the special car right in the Grand Central Station, New York, instead of being towed over to the freight depot, as was done with the show cars. Permission was secured from the New York Central officials, inasmuch as this act set a new prece

amalgamation plates, in the mill. Mr. by the Studebaker Corporation to Constant brought here from the prevent this chassis, containing 35 the and the Bureau of Mines respectively and are given in their entirety:

I am going to enclose a copy of a ster we are sending to Director

The constant brought here from the dumps concentrates which assayed 20 ounces of pure gold, from being stolen or mutilated. Carrying heavy insurance, this record-sized piece of gold is sent from city to city by express.

SAGE TEA PUTS LIFE ounces of pure gold, from being stolen or mutilated. Carrying heavy insurance, this record-sized piece of gold is sent from city to city by express. car. It takes its place as the most expensive express "package" ever

listed. The importance which this gold chassis has assumed is indicated by the demand from dealers, automobile happy to give the Mining Bureau any show officials and hotel men all over further information desired, from the the country for permission to exhibit It in their cities. R. T. Hodgkins, Proper transportation facilities from general sales manager of the Studethese districts to Phoenix and the rail- baker Corporation, is being swamped with letters and telegrams.

of Cave Creek and its subsidiaries, try, has shipped about \$3,000,000 worth of ore. From the Tiger Gold estate shipments of \$125 per ton ore have ben made. The Savoy group has prosten, tale, onyx, marble, and other duced an ore carrying 250 ounces in silver to the ton, and a gold ore having an average value ofg \$28.00 per The Eclipse has produced about nected with the company have visited \$100,000 worth of silver bullion, with this district and are much interested the ore assaying as high as \$1000 in silver to the ton. The War Eagle-Gladiator group has a production record of more than \$200,000 worth of geld bullion and concentrates. Lincoln property, another old time producer, has outputted about \$600,000 worth of ore. Other properties in the ance within a few days. Crown King country have flattering production records, but the beforementioned will serve to demonstrate

The Crown King area is highly mineralized and carries an ore that resembles closely in character and bearing rock in Maricopa county and United States. What may be termed mineral contents the better grade Tonopah ores. The prospectors and miners who are migrating to Yavapai country are very favorably impressed with the Crown King field and are deested, but for the county as a whole. I rofitable investment opportunities af- voting their energies to mineral reforded by the mining industry as a search therein with considerable sucwhole; the marked degree of atten- cess. Among their number are several former Nevadans and Coloradoansnotably Jim Sullivan, Cripple Creek and Tonopah pioneer.

The Eclipse mine, although small in area-a single claim-is another recrefractory ores, and the increasing de- milling appliances. It lies next to the mand and price for lead, copper and Savoy group and is owned by Luke zinc, which are the by-products of the brothers of Phoenix. In the late '80s Properties which were making min- worth of ore, a considerable tonnage ledge has been opened on the Bond

Hire a little salesman at The Reing "Gold" any mention of the occur. paid in dividends upward of \$400,000, publican office. A want Ad will se

Court Battle Waged Over Their Custody



Elizabeth and Charles W. Gillett, Jr. just been waged over the custody of these children. Their father is Charles W. Gillett, and their mother, who was given their custody when she secured her divorce, is Mrs. H. J. Bryant, she having married a ain. The judge beld that the mother could keep the children, but that the father might see them once each week.

GETTING THE CHILD'S VIEW ur failure to get along with young children, and for our failure to get the most out of them, is our attempt to understand their actions in terms of our own maturer motives and values land. He rode in the special car that Or rather, there is generally no attempt to understand at all, merely a measuring and criticising on the as umption that their "reasons" for doing things are similar to our own

> HABITS OF CANDIDATES "What has become of the candidate Cleanse" if you wish to immediately vegetation. It goes right to the he used to have his photo taken be-

shoto taken beside a stock ticker."-

AND COLOR IN HAIR

Don't Stay Gray! Sage Tea and Sulphur Darkens Hair so Naturally that Nobody can tell.

You can turn gray, faded hair beautifully dark and lustrous almost over night if you'll get a 50 cent bottle of "Wyeth's Sage and Sulphur Compound" at any drug store. Millions of bottles of this old, famous Sage Tea Recipe are sold annually, says a well-known druggist here, because it darkens the hair so naturally and evenly that no one can tell

Those whose hair is turning gray, ecoming faded, dry, scraggly and thin have a surprise awaiting them, because after one or two applications the gray hair vanishes and your locks become luxuriantly dark beautiful-all dandruff goes, scalp itching and falling hair stops This is the age of youth. Gray

haired, unattractive folks aren't want ed around, so get busy with Wyeth's Sage and Sulphur tonight and von'll be delighted with your dark, hand-

WHEN IN FLAGSTAFF Stop at the

Hotel

Points of Interest Near Flagstaff

15	The second secon
13	Grand Canyon65 mile
ł	Grand Canyon65 mile Fixtinct Volcanoes18 mile
18	Lava Beds
	Ice Caves
18	Prehistoric cliff dwellings.10 mile
3	Cave dwellings10 mile
13	Oak Creek Trout Stream18 mile Montezuma's well50 mile
15	Montezuma's well50 mile
18	San Francisco peaks12 mile
18	(Elevation 13,900 feet)
18	Altitude of Flagstaff 6907 f
13	Prehistoric Ruins35 mile
13	Natural Bridge75 mile

When Going

Take the

Golden State Limited

Premier Train of the Southwest

A solid vestibuled all steel train, consisting of standard and tourist sleeping cars, diners and observation cars, with every luxury that goes to make travel a pleasure.

KANSAS CITY ST. LOUIS

CHICAGO Connections made with the fast trains for the east,

Ask your agent for reservations, or address GARNETT KING.

General Passenger Agent, El Paso, Texas



SHIRLEY & SHIRLEY

store or toilet counter and try it as

Flexible Arch Supports

No metal. Price \$2 per pair.

All sizes for sale by



Phone 1709 55 East Washington St.

NO DANDRUFF-25 CENT DANDERINE washing hair! Try this! application of Danderine dissolves ev-

GIRLS! CLEAN AND BEAUTIFY HAIR

ery particle of dandruff; invigorates Makes hair glossy, soft the scalp, stopping itching and falland Abundant. ing bair. Danderine is to the hair what fresh Surely try a "Danderine Hair showers of rain and sunshine are to

double the beauty of your hair. Just roots, invigorates and strengthens

moisten a cloth with Danderine and them. "He may be a little out of date, draw it carefully through your heir, and life-producing properties cause However, no candidate has as yet taking one small strand at a time, the hair to grow long, strong and this will cleanse the hair of dust, dirt beautiful. or any excessive oil-in a few min-You can surely have pratty, soft utes you will be amazed. Your hair justrous hair, and lots of it, if you will be wavy, fluffy and abundant will just get a 25 cent bottle of and possess an incomparable soft- Knowlton's Danderine from any drag

ness, lustre and luxuriance.

Besides beautifying the hair, one directed.



Cleaned or Rebuilt Like New The Cost Is So Little

This Repair Directory gives all the principal places where an article can be repaired and should be preserved in every home as a ready guide.

ADVANCE THE "AGE LIMIT" OF YOUR TIRES-

MOTOR SUPPLY 315-317 North Central Avenue

Ask for a copy of our catalogue HATTERS renovate. made to order.

PHOENIX HAT SHOP

24 N. Second St. Phone 456

HEGE @ CO. **JEWELERS** Fine watch repairmanufacturing. 10 W. Wash, St.

Radiators lamps, fenders & Windshields We also re-





and REPAIRING McKEAN'S DYE WORKS Phone 1896

Want Ads in The Re-

publican are big sales-

men.

CLEANING. DYEING

PHOENIX CYCLE CO. 308 North Center St. Phone 1717

hand. Repairing.

Pinney & Robinson 5 Experienced gun-smith. We clean and repair guns of all kinds.

LYTTHANS

MUSIC CO.

17 S. Center St. Phone 598